Figure 1

X-ray Diffraction

Polycrystalline Single crystal Multiple grains Amorphous

X-ray Spectroscopy

Absorption near edge
Extended absorption fine structure
X-ray magnetic circular dichroism
Partial fluorescence

X-ray Imaging

Radiography
Tomography
Phase contrast
Coherent diffraction

X-ray Inelastic Scattering

Non-resonant inelastic scattering
Resonant inelastic scattering
Nuclear resonant scattering
Compton scattering

